

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
7 July 2005 (07.07.2005)

PCT

(10) International Publication Number
WO 2005/060350 A2

- (51) International Patent Classification: Not classified
- (21) International Application Number: PCT/IL2004/001157
- (22) International Filing Date: 22 December 2004 (22.12.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 60/530,899 22 December 2003 (22.12.2003) US
- (71) Applicant (for all designated States except US): YEDA RESEARCH & DEVELOPMENT CO. LTD. [IL/IL]; Weizmann Institute of Science, P.O. Box 95, IL-76100 Rehovot (IL).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): SHAI, Yechiel [IL/IL]; Bar Simantov Street 70, IL-56333 Yehud (IL).
- (74) Agent: WEBB, Cynthia; Webb & Associates, P.O. Box 2189, IL-76121 Rehovot (IL).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



WO 2005/060350 A2

(54) Title: DIASTEREOMERIC PEPTIDES USEFUL AS INHIBITORS OF MEMBRANE PROTEIN ASSEMBLY

(57) Abstract: The present invention relates to membrane binding diastereomeric peptides comprising amino acid sequences corresponding to a fragment of a transmembrane proteins, wherein at least two amino acid residues of the diastereomeric peptides being in a D-isomer configuration. The diastereomeric peptides are useful in inhibiting fusion membrane protein events, including specifically viral replication and transmission.